

**(TITLE OF INVENTION)**

## **The Mini-Sweep**

(CROSS REFERENCES TO REALTED APPLICATIONS)

1) US-5,095,574	03-1992	KHANZADIAN, SARKIS	15/118
2) US-6,155,620	12-2000	ARMSTRONG, JEFFERY L.	294/57
3) US-6,405,403	06-2002	McKAY, WILLIAM D.	15/228
4) US-6,546,584	04-2003	HOBODEN, EDMOND C. A.	15/144.1
5) US-6,757,928	07-2004	LEE, JACK RAMOND	15/104.001
6) US-6,795,999	09-2004	POST et al.	15/220.1

**STATEMENT REGARDING FEDERALLY SPONSORED  
RESEARCH OR DEVELOPMENT**

**NOT APPLICABLE**

**THE NAMES OF THE PARTIES  
TO A JOINT RESEARCH AGREEMENT**

**NOT APPLICABLE**

**INCORPORATION-BREFERENCE OF MATERIAL  
SUBMITTED ON A COMPACT DISC**

**NOT APPLICABLE**

TITLE: "The Mini-Sweep" and its components.  
COMPONENTS: "The Mini-Lifter", "The Mini-Sweep Mounting Bracket"  
INVENTOR: Kevin King Irish  
INVENTED ON: Jan. 11, 2003  
ADDRESS: 20201 Gaukler St, St. Clair Shores, MI 48080-3772  
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CITIZENSHIP: United States

## SPECIFICATION

(¶0001) "The Mini-Sweep" and its components are comparable to the non-motorized floor "sweepers" available.

(¶0002) "The Mini-Sweep" (Figure 1-Page 8) is composed of 2 assemblies ("The Mini-Sweep" and "The Mini-Lifter") and a single additional part ("The Mini-Sweep Storage/Mounting Bracket"). All of the components and assemblies, which make up "The Mini-Sweep", may be made/manufactured from any known, durable, high impact resistant plastic or resin manufactured through injection or blow-molding, or other plastic forming/molding manufacturing procedure. A small gauge, low tension metallic spring is used for "The Mini-Lifter" only. The basic dimensions to all components are:

- d) "The Mini-Sweep" (Figure 1-Page 8) has 3 main components. The "cleaning head" where a "replaceable cleaning pad" is attached, is 6 inches in length, 2 inches in width and 1/8 inch thick. It has 2-1 inch by 3/8 inch, by 1/4 inch blocks for attaching to handle. There is a 3 1/8 inch by 1/8 diameter rod or dowel, also for attaching to handle. The handle is 18 inches in length, 1 inch wide and 3/8 inch thick. "The Mini-Sweep" is designed to clean small or low-clearance areas. Detailed dimensions on drawings.
- e) "The Mini-Lifter" (Figure 6-Page 9) has 3 components. The base is 3 inches long, 1 inch (at highest point), 1/4 inch (at lowest point) and 3/4 inch wide, with a material thickness of 1/8 inch. The "lever" mechanism is 3 inches in length (total), 7/8 inch in height (total), 7/16 inch in width, with a variable thickness from 1/8 inch to 1/2 inch. The base and lever attach pivotally on a 3/4 inch in length by 1/8 diameter rod or dowel. A small gauge, low tension, metallic spring is added to lever to allow lever to return to 'ready' condition. This assembly stores in the handle of "The Mini-Sweep".

This device is designed to “lift” specific items for cleaning under, with a minimum clearance of ¼ inch to ½ inch, manually. Detailed dimensions on drawing.

- f) “The Mini-Sweep Mounting Bracket”(Figure 7-Page 10) is a single piece, for storage of “The Mini-Sweep”, “The Mini-Lifter” and “replaceable cleaning pads” container/package, of a specific size. The basic dimensions are 6 ½ inches in height, 3 ¼ inches in width and 1 ¼ inch in depth. It has a “hook-type” feature that allows “The Mini-Sweep” to be stored. The Mounting Bracket can be installed behind doors, cabinet doors or any small space. Detailed dimensions on drawing.

(¶0003) All components listed above are to be considered when packaged together, as a single entity/unit/item. Only containers/packages of “replaceable cleaning pads” will be considered separate from “The Mini-Sweep” or its components.

(¶0004) Complete manufacturing reports, marketing reports, sales forecasts (projections) and patent attorney recommendation are available to QUALIFIED and AUTHORIZED inquiries ONLY AFTER OFFICIAL UNITED STATES PATENT NUMBER IS APPLIED AND ISSUED.

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**BACKGROUND OF INVENTION**

(¶0001) The invention is used for cleaning purposes, specifically in between small, flat spaces and surfaces, i.e., between walls and household appliances, Televisions and other audio-visual components. It is also intended for use in offices and other professional applications such as filing cabinets and computers, just to name a few.

(¶0002) The device and its components are "new" and "original" in design and concept to the best of my knowledge. This invention was created for specific cleaning applications, based upon the limitations and exclusions of other similar or comparable devices. These limitations are associated with and not excluding non-motorized floor "sweepers" of various names and designs, i.e., too bulky, ineffective, limited usage. "The Mini-Sweep" is a much smaller version, but may be classified the same, i.e., "cleaning tool" or "device" or any variation thereof.

(¶0003) Description of related art. NOT APPLICABLE



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### **SUMMARY OF INVENTION**

(¶0001) The invention was inspired by the limitations of comparable, larger "sweepers" or "dusters", and may be used with only one hand.

(¶0002) It incorporates three (3) components to comprise the package or set. The invention is intended include a small objects lifting device, a main tool which is the main item which has a long handle and a flat-rectangular end which performs the actual cleaning and a storage or mounting bracket to keep all components together. By design, "The Mini-Sweep" can reach into areas with only ¼ inch clearance (with use of 'small objects lifter') or from ½ inch and larger clearances by itself. It is lightweight, and maneuverable, and all components can be easily stored on "The Storage/Mounting Bracket".

## DISCRIPTION OF VIEWS

### FIGURE A (Page 17)

"The Mini-Sweep" main cleaning Tool

#### PARTS

1-Cleaning Head/Pad

2-Handle

3-Pivot

4-Pin

### FIGURE B (Page 19)

"The Mini-Lifter" small object lifting tool

#### PARTS

1-Lifter housing

2-lifter lever

3-Pin

4-Spring

### FIGURE C (Page 21)

Storage/Mounting bracket

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#### **DETAILED DESCRIPTION OF INVENTION**

(¶0001) "The Mini-Sweep" and its components are to be made of any high-impact, lightweight plastic or resin material, which will provide adequate strength and durability. The three main components are listed in detail:

- a) "The Mini-Sweep" has 3 main parts. The "cleaning head" where a "replaceable cleaning pad" is attached, is 6 inches in length, 2 inches in width and 1/8 inch thick. It has 2-1 inch by 3/8 inch, by 1/4 inch blocks for attaching to handle. There is a 3 1/8 inch by 1/8 diameter rod or dowel, also for attaching to handle. The handle is 18 inches in length, 1 inch wide and 3/8 inch thick. "The Mini-Sweep" is designed to clean small or low-clearance areas. Detailed dimensions on drawings. (Page 8)
- b) "The Mini-Lifter" has 3 components. The base is 3 inches long, 1 inch (at highest point), 1/4 inch (at lowest point) and 3/4 inch wide, with a material thickness of 1/8 inch. The "lever" mechanism is 3 inches in length (total), 7/8 inch in height (total), 7/16 inch in width, with a variable thickness from 1/8 inch to 1/2 inch. The base and lever attach pivotally on a 3/4 inch in length by 1/8 diameter rod or dowel. A small gauge, low tension, metallic spring is added to lever to allow lever to return to 'ready' condition. This assembly stores in the handle of "The Mini-Sweep". This device is designed to "lift" specific items for cleaning under, with a minimum clearance of 1/4 inch to 1/2 inch, manually. Detailed dimensions on drawing. (Page 9)
- c) "The Mini-Sweep Mounting Bracket" is a single piece, for storage of "The Mini-Sweep", "The Mini-Lifter" and "replaceable cleaning pads" container/package, of a specific size. The basic dimensions are 6 1/2 inches in height, 3 1/4 inches in width and 1 1/4 inch in depth. It has a "hook-type" feature that allows "The Mini-Sweep" to store. The Mounting Bracket can be installed behind doors, cabinet doors or any

small space. Detailed dimensions on drawing. (Page 10)TITLE: “The Mini-Sweep”  
and its components.

**PAGE TITLE**

Minilifter.minisweep

**DESCRIPTION**

B/W photo of Mini-Sweep components

- 1) Mini-Sweep
- 2) Storage/Mounting Bracket
- 3) Mini-Lifter

MINI-SWEEPa027

B/W photograph shown with 'cleaning pad box'

cleaningPADstorage1

Storage information

cleaningPADstorage2

Storage information

cleaningPADstorage3

Storage information

minisweepFLAT

Shown in 'storage' position

minisweepOPENTilted

Shown in 'open' position

storage BRACKET1

Side view of storage/mounting bracket

storage BRACKET2

Side view of storage/mounting bracket

minisweep.minilifter

Side view of complete assembly for storage

tv1

Showing cleaning on side of refrigerator

refrigerator1

Showing cleaning on side of refrigerator

stereo1

Showing cleaning under stereo component

minilifter1

Showing mini-lifter in 'open' position

minilifter2

showing mini-lifter in 'closed' position